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In [1]: import pandas as pd
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In [2]: import numpy as np
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In [4]: data=pd.read_csv("/home/placement/Downloads/movies.csv")
```

```
In [5]: data.describe()
```

Out[5]:

	srno	year	rating	time
count	49590.000000	49590.000000	10814.000000	45836.000000
mean	24795.500000	2002.303428	3.451248	2628.445436
std	14315.544261	12.534555	0.495601	1604.646265
min	1.000000	1913.000000	1.400000	52.000000
25%	12398.250000	1999.000000	3.100000	1356.000000
50%	24795.500000	2007.000000	3.500000	2563.000000
75%	37192.750000	2010.000000	3.800000	2877.000000
max	49590.000000	2014.000000	4.500000	28813.000000

```
In [6]: data=data.groupby(['model']).count()
```

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KeyError Traceback (most recent call last)

Cell In[6], line 1

----> 1 data=data.groupby(['model']).count()

File ~/anaconda3/lib/python3.10/site-packages/pandas/core/frame.py:8402, in DataFrame.groupby(self, by, axis, level, as\_index, sort, group\_keys, squeeze, observed, dropna)

```
    8399     raise TypeError("You have to supply one of 'by' and 'level'")
    8400     axis = self._get_axis_number(axis)
-> 8402     return DataFrameGroupBy(
    8403         obj=self,
    8404         keys=by,
    8405         axis=axis,
    8406         level=level,
    8407         as_index=as_index,
    8408         sort=sort,
    8409         group_keys=group_keys,
    8410         squeeze=squeeze,
    8411         observed=observed,
    8412         dropna=dropna,
    8413     )
```

File ~/anaconda3/lib/python3.10/site-packages/pandas/core/groupby/groupby.py:965, in GroupBy.\_\_init\_\_(self, obj, keys, axis, level, grouper, exclusions, selection, as\_index, sort, group\_keys, squeeze, observed, mutated, dropna)

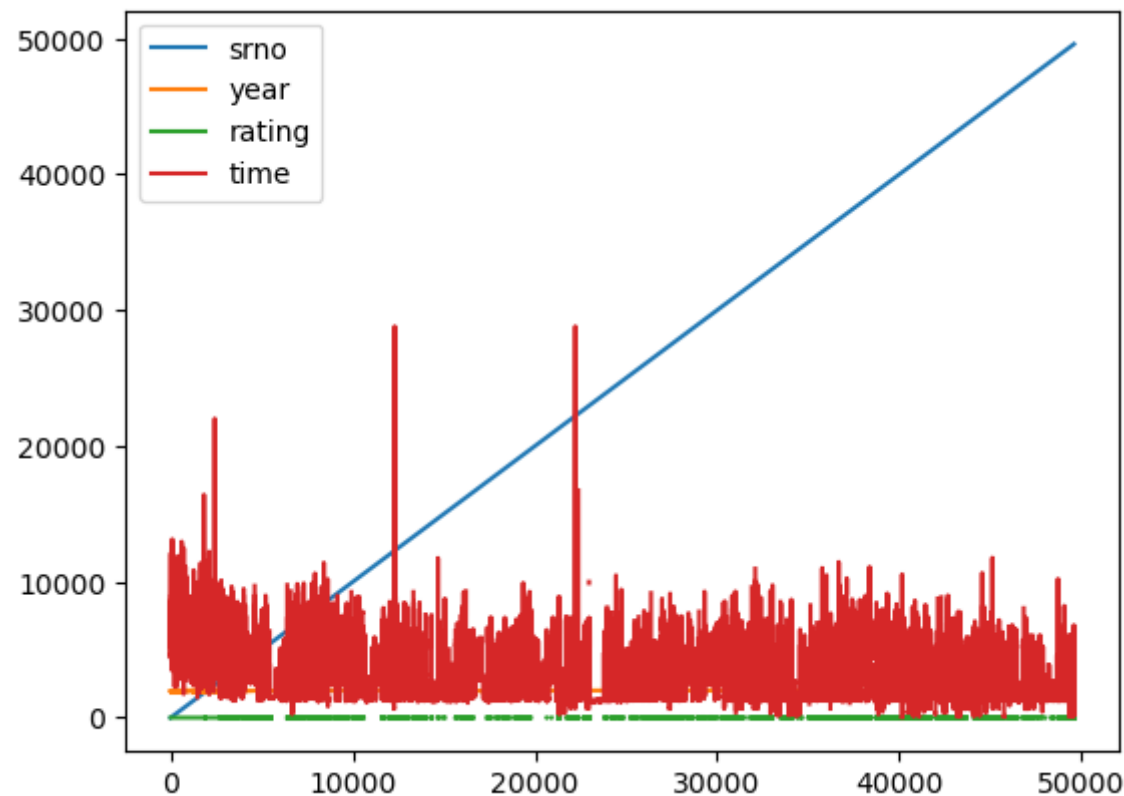
```
    962     if grouper is None:
    963         from pandas.core.groupby.grouper import get_grouper
-> 965     grouper, exclusions, obj = get_grouper(
    966         obj,
    967         keys,
    968         axis=axis,
    969         level=level,
    970         sort=sort,
    971         observed=observed,
    972         mutated=self.mutated,
    973         dropna=self.dropna,
    974     )
    976     self.obj = obj
    977     self.axis = obj._get_axis_number(axis)
```

```
File ~/anaconda3/lib/python3.10/site-packages/pandas/core/groupby/grouper.py:888, in get_grouper(obj, ke
y, axis, level, sort, observed, mutated, validate, dropna)
    886         in_axis, level, gpr = False, gpr, None
    887     else:
--> 888         raise KeyError(gpr)
    889 elif isinstance(gpr, Grouper) and gpr.key is not None:
    890     # Add key to exclusions
    891     exclusions.add(gpr.key)
```

KeyError: 'model'

In [7]: data.plot()

Out[7]: <Axes: >



```
In [8]: data=data.rename(columns={'model_name':'model'})  
list(data)
```

```
Out[8]: ['srno', 'movie', 'year', 'rating', 'time']
```

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In [ ]:
```